

*Recommended for analysis and endorsement in the BoA meeting dated \_\_\_\_\_ and  
for approval in the OGMS dated \_\_\_\_\_*

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**S.C. CONPET S.A. Ploiești  
Economic Direction  
The Department for Procurement and  
Investments Management**

**No. 1437/23.01.2015**

**ENDORSED,**

**General Director  
Eng. Liviu Ilasi  
S.s. Illegible**

### **SUBSTANTIATION NOTE**

#### **Regarding the Necessity and Opportunity of the Objectives/Works comprised in 2016-2018 Investments Program**

The 2016-2018 Investments program is part of the 2016-2018 Revenues and Expenditure Budget.

For the substantiation of 2016-2018 investments program, the company entities recommended for analysis both the 2013, 2014 achievements, as well as the estimates of 2015 achievements.

CONPET finances the investment activity from own sources and modernization quota. Both sources of financing offer the company a total degree of financial autonomy, not being necessary to consider credit loans.

The own sources are made of other reserves and amortization.

Out of the modernization quota, CONPET finances investment objectives within the rehabilitation, modernization and development programs agreed upon with the national Agency for Mineral Resources by way of the "Oil Concession Agreement of the activity of operation of the crude oil, rich gas, condensate and ethane national pipeline transport system, here included the major pipelines and installation, equipment and ancillary facilities".

The inclusion of new investment objectives in the 2016-2018 investment plan was made exclusively based on the substantiation notes received up to now.

Given the difficulties our company had to face in performing the works within the previous years, such as:

- Delays in obtaining the right of way for the objectives in the forest and national roads areas;
- Delays caused by the unjustified refusal of the private landowners that conditioned the access for the works execution at the existing pipeline, of the payment of certain amounts that exceeded even the lands sale prices, or even refused distinctly to conclude the agreement, our company facing the impossibility to execute works in these areas;
- Delays in obtaining the Urban Planning Certificate and the Building Permits;
- Imperfections of the Oil Law 238/2004;



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And given the updated status of the contracts under performance (feasibility studies, design, design and execution, execution), as well as the transport program for 2016, we're currently advancing an investments program for 2016 which approximates 57 million Lei.

Record that for the investment objectives proposed to be finalized during 2016-2018, we have financing sources and there is the possibility to substantially rectify the program, by augmentation of the value thereof, or by the rearrangement thereof within the same approved values.

The means to set the value of the objectives within the 2016 investments program is the following:

- Investment objectives related to execution contracts in progress

Value=value left to be executed as per the contract

Value of 2016 program = 29,819 thousand Lei (25 pieces)

Value of 2017 -2018 program = 14,511 thousand RON

- Investment objectives related to design contracts in progress

Value=value of the design contracts + execution estimated value (corresponding to 2016), out of which:

Value of 2016 program = 9,479 thousand Lei (31 pieces)

Value of 2017 -2018 program = 42,380 thousand RON

- Investment objectives where the design and new works contracting is in progress

Value = value estimated based on the similar works performed during the previous years

Value of 2016 program = 17,678 thousand RON (96 pieces)

Value of 2017 -2018 program = 106,256 thousand RON

The investments projects of major importance included in 2017-2018 proposed programme:

## **PUBLIC AREA**

### **A. PIPELINE REHABILITATION**

The need and opportunity is being set following the smart pig inline inspections, the history of the breakages and soil resistivity measures. A major elements is represented by the measures imposed by the environment and water management authorities contained in the compliance programs.

It was considered the natural performance which involves, primarily, the contracting of the design services and subsequently, the contracting of the execution works.

Following the internal analysis, was performed an optimization of the works according to the hazard implied by each pipeline.

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### 1. Pipeline replacement

**Execution contract in progress**

- Replacement crude oil pipeline Ø 10 3/4" F2 Radinesti-Ploiesti, in Aninoasa- Batar site areas(0,15km), river Izvoras (0,05km) and Dealul Oltului (0,2km), Valcea county, L= 0,4km;
- Replacement of the crude oil pipeline Ø 14" Constanta-Baraganu, in Valea Nemtilor area(1km)
- Smart pig inspection of lines undercrossing the Danube and Borcea 7 linesx1800 linear meters t lines x 1400 linear meters and of the 14 inch pipeline Poarta Alba – Calareti;
- 28" Constanta-C1 pipeline, on a total length of 10145 m;
- 24" Baraganu-Calareti pipeline on a total length of 16295 m.

### **Design and Execution contracts in progress**

- 10 3/4" Poiana Lacului - Siliste pipeline, Line 1 and Line 2, in Mares area, location cemetery, on both lines, 300m each;
- Crude oil transport pipeline 10 3/4" F2 Varteju -Orlesti on a length of 30 m in Radinesti site, by the elimination of the pig stations and on a length of 375 m;
- Replacement of rich gas transport pipeline ø 4" degasolination Abramut - Marghita Ramp, in the area of the rail line undercrossing Marghita – Sacuieni 300 m, Petreu village, Abramut commune and replacement of the crude pipeline Petreu warehouse - Marghita Ramp ø 6 5/8" over a length of about 700 m, Ø 4" on a length of about 2500 m, Petreu village, Abramut commune, Bihor county;
- Replacement of crude pipeline Ø 10 3/4" Ghercesti - Icoana in area Section Valve Oltet left river bank - Section Valve Gengea left river bank, on a length of about 2000m;
- Replacement crude oil pipeline 10 3/4" Icoana-Cartojani in areas: Teleorman river -Tatarastii de Sus, on a length of about 350 m, Tatarastii de Sus commune and Icoana Station, on a length of about 850 m, Icoana locality, Olt county;
- Replacement of the crude oil pipeline L2 10 3/4" Radinesti-Ploiesti, in Troita Botorani-Saivan area(L=2.3Km) and in the area plum orchard - Deal Varatec (L=2.4km);
- Systematization of pig launcher/receiver installation in side Moreni station;
- 5 9/16" Turburea-ARPECHIM Pitesti ethane pipeline, Amaradia left river bank, Bratesti locality, over a length of about 350 m;
- Replacement of crude oil pipeline 6 5/8" Ochiuri-Moreni, Ochiuri area, Ochiuri station site - left bank valve over-crossing, on a length of 600m.

### **Design Contracts in progress**

- Replacement of 12 3/4" Line 1 +Line 2 Calareti-Ploiesti pipeline on a total length of 7,915 m, out of which: L1 (5 segments) -4,115 m and L2 (5 segments)-3,800 m;
- Replacement of the crude oil pipeline Ø 4" si 8 5/8" Comanesti-Vermesti, in Zaharoase area, undercrossing the National Road and rail line 4"x270 m, and area parallel to Railway Line 8 5/8"x550 m



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- Replacement of the crude oil pipeline Ø 10 3/4" L1 Barbatesti-Orlesti, Budele area (1,4km)
- Ø 10 3/4" Ghercesti-Icoana crude oil pipeline: section – overcrossing Craiova-Ghercesti County Road – Ghercesti poolside= 370 m, section Teslui right river bank-former river bed= 200 m, section Valea Draghiei area = 250 m, totalling 820 m;
- Crude oil pipeline Ø10 3/4" Icoana-Cartojani, in SPC Birla area ,approx. length 850m, in Mirosi area - agricultural lands, 2400 m in length, Negreni-Clanita village area, Teleorman county, 1500 m in length, in total 4750 m;
- Ø5 9/16" Pacureti-Magurele pipeline, Saratel river area, 1200m in length;
- Ø 6 5/8"+ Ø 8 5/8" Oprisenesti - Ciresu pipeline, 3000 m;
- Ø5 9/16 pipeline, Ghelinta station - Imeci ramp on the segment: Sohodal river- v. old Ghelinta warehouse, approx. 4500 m in length;
- 12"+14" Cartojani \_ Ploiesti Pipeline in Crivat - Catunu areas 550 m + 30 m horizontal drilling DN Ghimpati crossing Colentina crossing 500 m, Crevedia Mare\_Sf Gheorghe and Daia \_1100 m;
- Replacement of pipeline section Ø 6 5/8" Teis-Moreni in the area Aninoasa rail valve - rail bridge + road bridge in the area 71 National Road Targoviste-Pucioasa, approx. 1250 m in length, with deviation from private properties and rehabilitation of the pig launcher on the Ø6 5/8" Teis - Moreni, in the precinct of Teis crude oil station;

#### **Procurement procedure related to the contracting of solution study and design works in progress**

- Study regarding the possibility to deviate the pipelines 6" R.A and 6 5/8" Baicoi Centru - Ploiesti Km. 5, by pig receivers and the coupling thereof to the 8" pipeline New.

#### **New Works**

##### **Design**

- Replacement of Ø 10 3/4 " Icoana – Cartojani, Valea Burzii area, L = 350 m;
- Pipeline Ø 4" Izvoru - connection Ø 10" Icoana - Cartojani, 2450 Linear Meters in length;
- Rehabilitation of 24 inch pipeline in Ovidiu city area, 2450 linear meters in length;
- Replacement of 14 inch pipeline Poarta Alba - Mircea Voda area, 10.5 km in length;
- Replacement of pipeline 6" RA Moreni - Ploiesti (on the administrative territory of Ploiesti- Baicoi sector 9000 meters between the end of CR (Rom. RK) in the area of Petrom Aricesti Warehouse and the start of Ploiesti Western Belt undercrossing.
- Replacement of a crude oil pipeline section Ø 10 3/4 " Line 2 Siliste by route deviation, in Petrobrazi refinery - SKIDS manifold area and replacement of pig launcher/receiver, approx. 900 linear meters in length;
- Assembly of pig receiver on the crude oil pipeline Ø10" Line 1 Siliste –Ploiesti, Vest Railway Station;
- Replacement of pipeline Ø 4 1/2" Grindu Urziceni, inventory number 121743P section, small Canal – parking site Garbovi border, Ialomita County, approx. 1100 linear meters in length;
- Replacement of crude oil pipeline Ø 8 5/8 inch Lucacesti –Vermesti (inv. No. 120031) along the section parking Panovski - undercrossing of Moinesti - Comanesti National Road, approx. 400 meters;

- Replacement of crude oil pipeline Ø 8 5/8 inch Lucacesti –Vermesti (inv. No. 120031) along the section Lucacesti Station - Magura hill, approx. 1,7 km in length + 6" joint (Petrom) up to Moinesti ramp, for about 0.7 km;
- Replacement of pipeline sections Ø 10 3/4" Line 1 + Line 2 Poiana - Lacului - Siliste, approx. 570 m in length, on each of the two pipelines, around Cobia commune, Blidari locality, Dambovita county, between the left bank of the valley from the former park 14 Cobia and the stone road, Blidari locality;
- Replacement of pipeline sections Ø 10 3/4" Line 1 + Line 2 Siliste - Ploiesti, approx. 2700 meters in length, on each of the two pipelines, in the area overcrossing the irrigation canal, Bucsani locality and on the left side of the County Road 720 A, Adanca – Bucsani;
- Replacement of the pipelines sections Ø 10 3/4" Line 1 + Line 2 Siliste – Ploiesti, approx. 160 meters in length, on each of the two pipelines, in the area of Cazaci locality, Dambovita county, at the undercrossing of DN 71 National Road Baldana-Targoviste – Sinaia;
- Replacement of the pipeline 6 5/8" Barbatesti ramp - Petresti, section describing 220 meters in length, around departure pumping station - corner fence unloading ramp;
- Replacement of crude oil pipeline Ø10 3/4" Varteju - Radinesti: section - 400 meters in length in Halangesti;
- Replacement works, on the crude oil pipeline Ø10 3/4" Line 2 Radinesti - Orlesti, Inv. No. 122240P, Glavile commune, Valcea county, on a length of 2500 meters.

## 2. SAFE DISPOSALS

Aiming at the achievement of several safe disposal works on the infrastructure of the water crossings that are meant to increase the degree of safety in operation of these pipelines, indirectly for the protection against pollution of the waters crossed.

Along time, the crossed water beds undertook various modifications due to natural factors, or human intervention along water courses (exploitations of pit ballast products). The pipeline making the crude oil national transport system are crossing various waters in two design layouts: over and under crossings

The safe disposal works of the pipeline crossings consist in:

- Downdrifts;
- Riverbank protection upstream and downstream of the downdrift
- Wave breakers
- Consolidation of the pipe crossing pile;
- River bank defence along the route of the pipelines parallel with the water bed (destroyed river bank)
- Other works related to pipeline consolidation.

### Design contracts in progress

- Safe disposal works related to Cotmeana river under-crossing, on the crude pipelines Ø 10 3/4" Line 1 si Line 2 Orlesti-Poiana Lacului, ethane pipeline Ø 5 9/16" Turburea -Arpechim, optical fiber support pipeline Ø 6 5/8" L2 Orlesti-Albota, in Spata locality area, Lipia village, Arges county;

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- Safe disposal works related to aerial crossing Arges river, Ratesti area, Arges county, left bank;
- Safe disposal works related to scaffold for crude pipeline crossing Ø 10 3/4" Line 1 and Line 2 Orlesti-Poiana Lacului, ethane pipeline Ø 5 9/16" Turburea -Arpechim, Dragoiesti commune, village Buciumeni, Vilcea county;

#### **Procedure for contracting works execution in progress**

- Safe disposal works related to Vedea river under-crossing, by crude pipeline Ø 6 5/8" Lact - Icoana, in Icoana locality area, Olt county;

#### **Procedure for contracting design services in progress**

- Safe disposal works Arges river crossing, Cateasca area, Arges county, stage 2;
- River bank defence works at the undercrossing of the crude pipeline Ø 10 3/4" L1 Barbatesti - Orlesti, ethane pipeline Ø 5 9/16" Tulburea - Arpechim, optical fiber Ø 5 9/16 "Barbatesti-Ploiesti, Pesceana river, Amarasti commune, Valcea county.
- Solution study and execution of land consolidation works in the safety area of the crude pipeline Line 1 Barbatesti- Ploiesti, in the area of Pesceana river right bank, Livezi locality, Valcea county;
- Technical appraisal of Plopou overcrossing of the Trotus river, 182 m in length;
  - Works for consolidation of piles, fix and mobile bearers and pre-stressing cross-ties at Arges river crossing, Cateasca area, Arges county;
  - Safe disposal works related to aerial crossing of Prahova river by Cartojani - Ploiesti 12 3/4" and 14 3/4" pipelines, Stejaru village, Brazi commune, Prahova county;

#### **New Works**

- Solution study and safe disposal works related to the crude oil pipeline Ø10 3/4" Line 1 Barbatesti - Orlesti in Verdea Area, Amarasti commune, Verdea Village, Valcea county;
- Solution study and works for consolidation of land/safe disposal of the crude oil pipeline Ø10 3/4" Line 1 Barbatesti - Ploiesti, in Orlesti locality, Orlesti commune, Valcea county;
- Safe disposal of the pipeline Ø 6 5/8" Urlati - Ploiesti and Ø4" optical fiber support at Teleajen River undercrossing;
- Safe disposal works related to the Cartojani - Ploiesti Ø12 3/4" and Ø14 3/4" pipelines undercrossing, Ciorogarla river, Dambovita county;
- Safe disposal works of the crude oil pipeline Ø10 3/4" Line 2 Radinesti – Orlesti, at Pesceana and Aninoasa rivers crossings.

#### **B. Modernization and monitoring of the cathodic protection system at central and sectoral level, related to Ticleni-Ploiesti, Line 1 and Line 2 crude oil transport pipelines**

Execution contract in progress, completion term 2016

**C. Modernization and monitoring of the cathodic protection system related to the domestic and import National Transport System – design**  
Design contract, completion term 2016

**D. Modernization and monitoring of the cathodic protection system related to the domestic National Transport System – execution**  
After completion of the design contract shall be started the procedure for contracting the execution.

**E. Pilot system for detection and location of product leaks from the crude oil major pipelines system Videle - Cartojani – Ploiesti**  
Drafting the tender book in progress, in view of initiating the procedure for contracting design and execution works

**F. Consultancy and Technical Assistance**

**G. Tanks**

**Execution Contract in progress**

- PECICA R1 Tank
- Barbatesti R6 Tank

**Design and Execution Contract in progress**

- Modernization of Baicoi tank farm

**Design Contract in progress**

- Poiana Lacului new tank
- Rehabilitation of R9 Tank Cartojani

**New Works**

- Rehabilitation of the 500 cubic meters buffer tank in Baraganu station
- Calareti Fire Prevention and Extinguishing (Rom. PSI) Installation Tank
- Rehabilitation of R3 crude oil tank, 31500 cubic meters throughput from Calareti station

**H. Energy Works**

**Design contract in progress**

- Modernization of exterior illumination equipment by making use of the LED technology sources - East Division and South Division
- Modernization of exterior illumination equipment by making use of the LED technology sources -West Division and Import Division
- Modernization of power feeding in Imeci crude oil loading ramp;
- **New Works**
- Modernization of the vibration and temperature monitoring system for the pumping equipment implemented inside the domestic crude oil transport system;

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## **I. Telecommunication Works**

- Enhancing transport capacity microwaves radiorelays on the section Baraganu – Constanta and relocation of Constanta Nord;
- Modernization of the PABX telephone office in locations Ploiesti 1848, Ploiesti Garage, Poiana lacului, Baraganu and Moinesti;
- Optimization of multiplexor Ethernet access network;

## **J. Modernization of the pumping Stations**

### **Design contracts in progress**

- Modernization of Moreni pumping system;
- Modernization of Oprisenesti pumping system;
- Modernization of Madulari pumping system;

### **Execution Contract in progress**

- Modernization of Ciresu pumping system
- Modernization of Bucsani pumping system

### **New Works**

- Modernization of Potlogi pumping system;
- Modernization of Ghelinta pumping system;
- Modernization of Ochiuri pumping system;
- Modernization of Marghita pumping system;

## **K. Ramps Modernization**

### **Design Contracts in progress**

- Modernization of Independenta loading ramp

### **New Works**

- Modernization of Ciresu ramp
- Modernization of Berca ramp
- Modernization of Imeci ramp

## **L. Buildings and Fencing**

### **Finalized technical appraisal contract**

- Modernization of building social group Barbatesti warehouse
- Modernization of Barbatesti warehouse's storage building
- Modernization of Fire Prevention and Extinguishing (Rom. PSI) Shed 1 Barbatesti ramp
- Modernization of Fire Prevention and Extinguishing (Rom. PSI) Shed 2 Barbatesti ramp

## **New Works**

- Poiana Lacului station fencing
- Marghita ramp fencing

## **M. Automation and SCADA Works**

### **New Works**

- Modernization of the automation of the leaks tanks in Calareti stations A and B
- Automation of rail tanks loading system Suplac;
- Local automation of non-modernized stations;
- Optimization of SCADA system and Hardware and Software of the Remote Transmission Unit (RTU)
- Patrimonial Geographic Evidence System

## **N. Other Investment Objectives**

- Rehabilitation of the access road to Barbatesti warehouse

## **O. Projects, Studies, Technical Appraisals**

### **New Works**

Solution Study regarding the adaptation of a number of measuring skids in view of optimizing the operation thereof;

Feasibility study regarding an automated system for the surveillance of the main lines

## **OPERATING AREA**

### **A. Investment objectives**

- Pipeline rehabilitation

### **Design contract in progress**

- Replacement crude oil pipeline Ø 10 3/4" Vermesti-Tg. Ocna-Rafo Onesti, in Bogata-Balta Dofteana areas (2,5km), Caraboaia river- Uz river (1km), Larga bridge - Trotus crossing (3km), L=6,5 km;
- Crude pipeline Ø 10 3/4" Vermesti-Tg Ocna - Rafo Onesti, areas pig station Tg Ocna - Monument Zaharia, L=2 km, v. SPV Bogata - Valea Dofteana, L= 1 km
- Crude pipeline Ø 6 5/8" Urlati-Ploiesti, Matizol- Ploiesti Eastern belt highway area, L= 1,5 km
- Replacement of a section, 2500 ml in length, of the crude pipeline 6 5/8" Pig station Banesti- Baicoi Centre, between overcrossing of Doftana left bank and Aurel Vlaicu monument in Banesti commune;
- Ø 6 5/8" rich gas pipeline Ticleni - Ploiesti: 300 m section in Diculesti area, Valcea
- Ø 6 5/8" rich gas pipeline Ticleni - Ploiesti: 300 m section in Fauresti area (police station) Valcea and 300 m section in Plesoiu-Salcia area (Dolj).

### **New Works:**

- Replacement of a section of the crude oil pipeline Ø 8 5/8" NEW by route deviation, in Petrobrazi refinery - SKIDS Manifold area and replacement of pig launcher/receiver, approx. 800 linear meters in length;

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- Replacement of crude oil transport pipeline Ø 10 3/4" Vermesti-Rafo Onesti (inventory number 120036) along the route: Vermesti work site – Plopou crossing of Trotus river in a length of about 1.4 km.

- **Water feeds**

**Design and Execution contract in progress**

- Barbatesti Water feed
- **Buildings, stations' fencing**

**Finalized technical appraisal contract**

- Garage building Moinesti
- Offices building OHS Orlesti
- Automobile garage and service repair buildings Orlesti
- Headquarters Biled-Pecica sector
- Offices Building Pecica ramp
- Jendermes building Barbatesti warehouse
- Service repair building Barbatesti warehouse
- Deposit building Barbatesti warehouse
- Social building Barbatesti ramp
- Building for shunting procedures Barbatesti ramp
- Door man building Barbatesti ramp
- Barbatesti ramp residential building

**Design contract in progress**

- Modernization of administrative headquarters II building ensemble

- **LDH and rail tanks**

**New execution works**

- Transformation of LDH 1250 HP in locomotive LEA 155 KW Barbatesti ramp
- **Other works**

**Execution contract in progress**

- Implementation of a Document management solution
- Modernization of relay station building

**New works**

- Climatization and monitoring of the locations related to the telecommunication system
- Modernization of the IT network
- ERP migration
- Video surveillance systems in 10 CONPET locations
- Implementation and wireless infrastructure equipment at CONPET headquarters in Ploiesti
- Information and Business Center CONPET S.A. headquarter I
- **Intangible investments**
- Supplement of Biddefender licenses

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## **B. INDEPENDENT FACILITIES AND EQUIPMENT LIST**

The most important procurements being represented by:

- Buldo-escavators and land utility vehicles, given the legal provisions in force;
- Portable machinery for rectification of the valve surfaces;
- Stand for pressure valve testing;
- Campus modules;
- Night vision devices;
- Pipeline surveillance device;
- Lab technology (digital densimeter, centrifuge, distillation unit, thermostated bathes, water distillation unit)
- Industrial computers for prover operation
- Copiers
- Computer Technology - computers and printers, given the legal provisions in force.

**To conclude, we recommend for endorsement the substantiation note regarding the necessity and opportunity of the objectives/works comprised in 2016-2018 investment program (attached).**

Director of the Economic Direction  
Econ. Sanda Toader, S.s. Illegible

Manager of the Procurement and Investment Management Department,  
Eng. Radu Albu, S.s. Illegible

## INVESTMENTS PROGRAM 2016-2018

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Nr. crt.	Name of the Objective	Value of the objective	Achieved value estimated up to 31.12.14 for the investment objectives previously contracted	KM 2016 total, olw:	Program 2016					out of which:					Observations	thousand R					
					modernization quota					KM Estimate 2017											
					Q I	Q II	Q III	Q IV	KM 2017	Estimate 2017	modernization quota	KM 2018	Estimate 2018	modernization quota	Observations						
	<b>Total general, olw:</b>			234,302	13,605	24	56,976	42,326	14,650	7,263	14,320	17,093	18,300	42	82,745	59,921	22,824	27	80,402	58,267	22,135
<b>1</b>	<b>PUBLIC DOMAIN</b>			188,830	12,861	24	42,796	42,326	470	6,065	10,875	13,075	12,781	37	61,121	59,921	1,200	23	59,867	58,267	1,600
<b>1.1</b>	<b>Pipeline Rehabilitation, out of which:</b>			98,660	9,129	24	26,788	26,788	0	3,352	6,825	7,875	8,736	37	37,158	37,158	0	23	21,400	21,400	0
<b>a)</b>	<b>ONGOING WORKS</b>			81,128	8,887	24	23,909	23,909	0	3,243	6,485	6,910	7,271	37	28,647	28,647	0	23	15,500	15,500	0
<b>1</b>	Replacement of the crude oil pipeline Ø 14" Constanta-Baraganu, in Valea Nemitor, area(1km)	487	9	1	478	478	350	128	0	0	0	0	0	0	0	0	0	0	3,210	3,210	0
<b>2</b>	Replacement crude oil pipeline Ø 10 3/4" F2 Radinesti-Ploiești, in Antimasa-Batar site areas(0,15km), river Izvoras (0,05km) and Dealul Oitului (0,2km), Vaicea county, L = 0.4km	433	423	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3</b>	10 3/4" Poiana Lacului - Siliște pipeline, Line1 and Line 2, in Mares area, location cemetery, on both lines, 300m each	381	15	0,00	100	0	0	50	50	0,60	266	266	266	266	0	0	0	0	0	0	0
<b>4</b>	28" Constanta-C1 pipeline, on a total length of 10145 m	14,235	3,735	3,70	6,353	6,353	1,000	2,000	2,000	1,353	3,50	4,147	4,147	4,147	0	0	0	0	0	0	0
<b>5</b>	24" Baraganu-Calareti pipeline on a total length of 16295 m	14,429	710	8,20	7,019	7,019	0	2,019	2,500	2,500	7,90	6,700	6,700	6,700	0	0	0	0	0	0	0
<b>6</b>	Replacement of 12 3/4" Line1 +Line 2 Calareti-Ploiești pipeline on a total length of 7,915 m, out of which: L1 (5 segments) -4,115 m and L2 (5 segments)-3,800 m,	6,394	194	1,50	900	900	0	10	490	400	6,40	5,300	5,300	5,300	0	0	0	0	0	0	0
<b>7</b>	Crude oil transport pipeline 10 3/4" F2 Vărlejui-Orlești on a length of 30 m in Radinesti site, by the elimination of the pig stations and on a length of 375 m;	310	15	0	5	5	5	0	0	0	0,40	290	290	290	0	0	0	0	0	0	0
<b>8</b>	Replacement of crude pipeline Ø 4" degasolification Abramut - Marghita Ramp, in the area of the rail line undercrossing Marghita - Saculeni 300 m, Petrești village, Abramut commune and replacement of the crude pipeline Petrești warehouse - Marghita Ramp Ø 6 5/8" over a length of about 700 m, Petrești village, Abramut commune, Bihor county,	539	9	1	530	530	0	30	250	250	0	0	0	0	0	0	0	0	0	0	0
<b>9</b>	3 1/2" Ghercesti - Icoana in area Section Valea Oltet left river bank - Section Valea Ghercesti left river bank, on a length of about 2000m;	927	45	0,5	182	182	0	32	50	100	1,50	700	700	700	0	0	0	0	0	0	0
<b>10</b>	Replacement crude oil pipeline 10 3/4" Icoana-Cartojani in areas: Teleorman river - Tatarasiile de Sus, on a length of about 350 m, Tatarasiile de Sus commune and Icoana Station, on a length of about 850 m, Icoana locality, Olt county;	733	35	0,3	198	198	0	30	50	118	0,90	500	500	500	0	0	0	0	0	0	0

Design and Execution contract in progress

Design and Execution contract in progress

Design and Execution contract in progress

INVESTMENTS MANAGEMENT BUREAU

INVESTMENTS PROGRAM 2016-2018

Nr. crt.	Name of the Objective	Value of the objective	Program 2016						out of which:						2017						Observations	
			31.12.14 for the investment objectives previously contracted						2017						2018							
			2016 total, o/w:	modernization quota	own source	Q I	Q II	Q III	Q IV	KM Estimate 2017	modernization quota	own sources	2018	KM Estimate 2018	modernization quota	own source	2018	KM Estimate 2018	modernization quota	own source		
1	<b>PUBLIC DOMAIN</b>	234,302	13,605	24	56,976	42,326	14,650	7,263	14,320	17,093	18,300	42	82,745	59,921	22,824	27	80,402	58,267	22,135			
1	<b>Pipeline Rehabilitation, out of which:</b>	188,830	12,861	24	42,796	42,326	470	6,065	10,875	13,075	12,781	37	61,121	59,921	1,200	23	59,867	58,267	1,600			
1.1	<b>Pipeline Replacement</b>	98,660	9,129	24	26,788	26,788	0	3,352	6,825	7,875	8,736	37	37,158	37,158	0	23	21,400	21,400	0			
a)	<b>ONGOING WORKS</b>	81,128	8,887	24	23,909	23,909	0	3,243	6,485	6,910	7,271	37	28,647	28,647	0	23	15,500	15,500	0			
1	Replacement of the crude oil pipeline Ø 14" Constanta-Baraganu, in Valea Nemitor area(1km)	59,968	8,887	24	23,209	23,209	0	3,243	6,485	6,795	6,686	32	24,662	24,662	0	4	3,210	3,210	0			
	Replacement crude oil pipeline Ø 10 3/4" F2 Radinesti-Ploiești, in Aminosoa-Batar site areas(0.15km), river Izvoras (0.05km) and Dealul Oitului (0.2km), Vâlcea county, L= 0.4km	487	9	1	478	478		350	128	0	0	0	0	0	0	0	0	0	0	0	Execution contract in progress	
2	10 3/4" Polana Lacului - Siliște pipeline, Line1 and Line 2, in Mares area, location cemetery, on both lines, 300m each	433	423	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Finalized. Commissioning is to be performed.	
3	28" Constanta-C1 pipeline, on a total length of 10145 m	381	15	0,00	100	100	0	0	50	50	0,60	266	266	0	0	0	0	0	0	0	Design and Execution contract in progress	
4	24" Berarganu-Calareti pipeline on a total length of 16235 m	14,235	3,735	3,70	6,353	6,353	1,000	2,000	2,000	1,353	3,50	4,147	4,147	0	0	0	0	0	0	0	Execution contract in progress	
5	Replacement of 12 3/4" Line1 +Line 2 Calareti-Ploiești pipeline on a total length of 7,915 m, out of which: L1 (5 segments) -4,115 m and L2 (5 segments)-3,800 m.	14,429	710	8,20	7,019	7,019	0	2,019	2,500	2,500	7,90	6,700	6,700	0	0	0	0	0	0	0	Execution contract in progress	
6	Crude oil transport pipeline 103/4" F2 Varteju-Orlești on a length of 30 m in Radinesti site, by the elimination of the pig stations and on a length of 375 m;	6,394	194	1,50	900	900	0	10	490	400	6,40	5,300	5,300	0	0	0	0	0	0	0	Design contract in progress	
7	Replacement of rich gas transport pipeline Ø 4" degassolation Abramut - Marghita Ramp, in the area of the rail line undercrossing Marghita – Saculeți 300 m, Petrești village, Abramut commune and replacement of the crude pipeline Petru warehouse - Marghita Ramp ø 6 5/8" over a length of about 700 m, Petrești village, Abramut commune, Bihor county;	310	15	0	5	5	5	0	0	0	0,40	290	290	0	0	0	0	0	0	0	Design and Execution contract in progress	
8	3/4" Ghercești - Iocana in area Section Valve Oil left river bank - Section Valve Ghercești left river bank, on a length of about 2000m;	539	9	1	530	530	0	30	250	250	0	0	0	0	0	0	0	0	0	0	Design and Execution contract in progress	
9	Replacement crude oil pipeline 10 3/4" Iocana-Cartojani in areas: Teleorman river -Tatarasiile de Sus, on a length of about 350 m, Tatarasiile de Sus, commune and Iocana Station, on a length of about 850 m, Iocana locality, Olt county;	927	45	0,5	182	182	0	32	50	100	1,50	700	700	0	0	0	0	0	0	0	Design and Execution contract in progress	
10		733	35	0,3	198	198	0	30	50	118	0,90	500	500	0	0	0	0	0	0	0	Design and Execution contract in progress	

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11	Replacement of the crude oil pipeline Ø 12 10 3/4" Radinesti-Ploiești, in Trotia Botorani-Savani area(=2,3km) and in the area plum orchard - Deal Varatec (=2,4km)	1,765	1,695	0	70	70	70	0	0	0	0	0	0	0	0	0	Execution contract in progress; Finalized replacement, remaining dismantling
12	Restructuring of the installation pig launcher/receiver in Moreni station	444	30	0,9	414	414	214	200	0	0	0	0	0	0	0	0	Design and execution contract in progress
13	Replacement of crude oil pipeline Ø 4" and 8 5/8" Comanesti-Vermesti, (4") in the areas undercrossing the National Road and Rails (Zaharose) on a length approx. 238 m and in the area of Umenii river - behind the thermal power plant 4"x50 m	636	25	0,20	211	211	0	11	100	100	0,50	400	400	0	0	0	Design contract in progress
14	Replacement of the crude oil pipeline Ø 10 3/4" L1 Barbatesti-Ornesti, Budete area (1,4km)	122	117	5	5	5	0	0	0	0	0	0	0	0	0	0	Design contract in progress
15	5 9/16" Turburea-ARPECHIM Pitesti ethane pipeline, Anaradia left river bank, Stejari locality, over a length of about 350 m	189	179	10	10	10	0	0	0	0	0	0	0	0	0	0	Finalized. Commissioning is to be performed.
16	Crude oil pipeline Ø 6 5/8 " Ochiuri-Morenii, Ochiuri area, site Ochiuri station - right bank valve overcrossing on a length of 600 m, in Ocnita pasture land area - Veverita plateau, approx. 3000 m in length and rehabilitation of the pig launcher on the Ø6 5/8 " Ochiuri - Moreni pipeline, the precinct of Ochiuri crude oil station.	1,370	0,60	330	330	0	50	100	180	3,00	1,040	1,040	0	0	0	Design contract in progress	
17	Ø 10 3/4" Ghercesti-Icoana crude oil pipeline: section- overcrossing Craiova-Ghercesti County Road - Ghercesti poolside= 370 m, section Tesui right river bank-former river bed= 200 m, section Valea Draghie area = 250 m, totalling 820 m:	1,326	17	0,3	300	300	0	50	100	150	0,60	1,009	1,009	0	0	0	Design contract in progress
18	Crude oil pipeline Ø 10 3/4" Icoana-Cartojani, in SPC Birla area (approx. length 850 m, in Mirrosi area - agricultural lands, 2400 m in length, Negreni-Clanita village area, Teleorman county, 1500 m in length, in total 4750 m;	3,963	36	0,50	637	637	37	0	200	400	2,90	2,000	2,000	1,50	1,290	1,290	Design contract in progress
19	Ø5 9/16" Pacureti-Maurete pipeline, Saratel river area, 1200m in length	400	0	20	20	5	5	5	5	5	1,20	380	380	0	0	0	Design contract in progress
20	Ø 6 5/8" + Ø 8 5/8" Oprisnenesti - Ciresu pipeline, 3000 m	1,200	1	420	420	40	0	100	280	2,00	780	780	0	0	0	Design contract in progress	
21	Ø 5 9/16 pipeline, Ghelinta station - Imeci ramp on the segment: Sohodai river- V. old Ghelinta warehouse, approx. 4500 m in length;	1,692	195	4,5	1,497	1,497	97	100	700	600	0	0	0	0	0	Design contract in progress	
22	12"+14" Cartojani, Ploiești Pipeline in Crivat-Catunu areas 550 m + 30 m horizontal drilling DN Ghimpaci crossing Colentina crossing 500 m, Crevedia Mare _ Sf Gheorghe and Dala _1100 m	2,550	0,00	130	0	30	0	100	0,30	500	500	2,40	1,920	1,920	1,920	Design contract in progress	

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23	Replacement of pipeline section $\varnothing$ 6 5/8" Teis-Moreni in the area Antinoasa rail valve - rail bridge + road bridge in the area 71 National Road Targoviste-Pucioasa, approx. 1250 m in length, with deviation from private properties and rehabilitation of the pig launcher on the 26 5/8" Teis-Moreni, in the precinct of Teis crude oil station	815		165	165	0	65	50	50	650	650	0	0	0	Design contract in progress		
24	Study regarding the possibility to deviate the pipelines 6" R.A and 6 5/8" Balcoi Centru - Ploiești Km. 5, by pig receivers and the coupling thereof to the 8" pipeline New.	125		125	125	0	25	50	50	0	0	0	0	0	Procurement procedure progress for SS and design. Bid analysis in progress.		
25	Smart pig inline inspection of the lines undercrossing the Danube and Borcea 7 lines x 1800 LM, 7 lines x 1400 LM and of the 14 inch pipeline Poarta Alba-Cașcări	4,501		1,401	3,100	3,100	1,400	1,700	0	0	0	0	0	0	Execution contract in progress.		
<b>b) NEW WORKS</b>		<b>21,160</b>	<b>0</b>	<b>0</b>	<b>700</b>	<b>700</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>585</b>	<b>5</b>	<b>3,985</b>	<b>0</b>	<b>19</b>	<b>12,290</b>	<b>0</b>	
26	Replacement of $\varnothing$ 10 3/4" Icoana - Cartojani, Valea Buzii area, L = 350 m	240			40	40	0	0	0	0	40	200	200	0	0	Design 2016	
27	Pipeline $\varnothing$ 4" Izvoru - connection $\varnothing$ 10" Icoana - Cartojani, 2450 LM in length;	165			40	40	0	0	0	0	40	200	200	0	0	Design 2016	
28	Rehabilitation of 24 inch pipeline in Ovidiu city area, 2450 linear meters in length;	2,560			60	60	0	0	0	0	60	1,000	1,000	1,45	1,500	Solution Study 2016	
29	Replacement of 14 inch pipeline Poarta Alba - Mircea Voda area, 10.5 Km in length;	7,500			95	95	0	0	35	60	1,00	700	700	4.00	3,000	Design 2016	
30	Replacement of pipeline 6" RA Moreni - Ploiești (on the administrative territory of Ploiești-Balcoi sector 9000 meters between the end of CR (Rom. RK) in Petrom Argești Warehouse and the start of Ploiești Western Belt undercrossing.	4,250			70	70	0	0	30	40	2.00	700	700	6.00	3,000	Design 2016	
31	Replacement of a crude oil pipeline section $\varnothing$ 10 1/4" Line 2 Siliște by route deviation, in Petrobrazi refinery - SKIDS Header area and replacement of pig launcher/receiver, approx. 900 linear meters in length;	720			70	70	0	0	30	40	2.00	700	700	6.00	3,000	Design 2016	
32	Assembly of pig receiver on the crude oil pipeline $\varnothing$ 10" Line 1 Siliște - Ploiești, Vest Railway Station;	375			25	25	0	0	0	30	40	0.30	350	350	0.30	300	Solution Study 2016
33	Replacement of pipeline $\varnothing$ 4 1/2" Grindu Uziceanu, inventory number 12-1743P section, small Canal - parking site Garovi border, Ialomița County, approx. 1100 linear meters in length;	340			30	30	0	0	0	30	40	0.30	350	350	0.30	300	Design 2016
34	Replacement of crude oil pipeline $\varnothing$ 8 5/8 inch Lucacesti - Vermesti (Inv. No. 120031) along the section parking Panovski - undercrossing of Moinești - Comanesti National Road, approx. 400 meters;	375			25	25	0	0	0	25	300	300	110	110	0.70	200	Design 2016
35	Replacement of crude oil pipeline $\varnothing$ 8 5/8 inch Lucacesti - Vermesti (Inv. No. 120031) along the section Lucacesti Station - Magura hill, approx. 1.7 km in length + 6 joint (petrom) up to Moinești ramp, for about 0.7 km	995			45	45	0	0	45	50	50	50	50	50	2.40	900	Design 2016

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36	Replacement of pipeline sections Ø 10 ½" Line 1 + Line 2 Poiana - Lacului - Siliștea, approx. 570 m in length, on each of the two pipelines, around Cobia commune, Blidari locality, Dâmbovița county, between the left bank of the valley from the former park 14 Cobia and the stone road, Blidari locality	370		20	20	0	0	0	0	20				50	50	1.14	300	300					Design 2016	
37	Replacement of pipeline sections Ø 10 ½" Line 1 + Line 2 Siliște - Ploiești, approx. 2700 meters in length, on each of the two pipelines, in the area overcrossing the irrigation canal, Bucșani locality and on the left side of the County Road 720 A, Adâncata - Bucșani	1,660		60	60	0	0	0	0	20	40	100	100	140	140	1.40	1,500	1,500					Design 2016	
38	Replacement of the pipelines sections Ø 10 ½" Line 1 + Line 2 Siliște - Ploiești, approx. 160 meters in length, on each of the two pipelines, in the area of Cazaci locality, Dâmbovița county, at the undercrossing of DN 71 National Road Bălănești-Târgoviște - Siliște	270		30	30	0	0	0	0	30		40	40	0.15	200	200							Design 2016	
39	Replacement of the pipeline 6 5/8" Bălănești ramp - Petresti, section describing 220 meters in length, around departure pumping station - corner fence unloading ramp	115		15	0	0	0	0	0	15		10	10	0.22	90	90								Design 2016
40	Replacement of crude oil pipeline Ø 10 ¾" Vârfeni - Radinesti; section - 400 meters in length in Halangesti commune, Vâlcea county, on a length of 2500 meters	525		25	25	0	0	0	0	25		50	50	0.25	450	450								Design 2016
41	Replacement works, on the crude oil pipeline Ø 10 ¾" Line 2 Radinesti - Orlăști, Inv. No. 122240P, Glavile commune, Vâlcea county, on a length of 2500 meters	700		50	50	0	0	0	0	50	0.15	150	150	0.70	500	500								Design 2016
1.2	<b>Safe Disposal Works</b>																							
1	Safe disposal works Arges river crossing, Cateasca area, Arges county, stage 2;	17,532	242	0	2,879	2,879	0	109	340	965	1,465	0.00	8,511	8,511	0	0.00	5,900	5,900	0					Design 2016
2	Safe disposal works related to aerial crossing Arges river, Ratesii area, Arges county, left bank;	11,952	242	0	2,599	2,599	0	109	340	965	1,185	0.00	7,911	7,911	0	0.00	1,200	1,200	0					Solution study finalized
3	Safe disposal works related to Colmeana river under-crossing, on the crude pipelines Ø 10 ¾" Line 1 si Line 2 Orlăști-Poiana Lacului, ethane pipeline Ø 5 9/16" Turburea - Arpechim, optical fiber support pipeline Ø 6 5/8" Line 12 Orlăști-Alboiu, in Spata locality area, Lipia village, Arges county;	754	99	655	655	5	50	300	300	0	150	0	4,200	4,200	0	0	0	0					Design contract in progress	
4	Safe disposal works related to Vedea river, under-crossing, by crude pipeline Ø 6 5/8" Iact - Icoana, in Icoana locality area, Olt county;	341	41	300	300	0	0	150	150	0	0	0	0	0	0	0	0	0					Solution study and design contract in progress.	
5	Safe disposal works related to scaffold for crude pipeline crossing Ø 10 ¾" Line 1 and Line 2 Orlăști-Poiana Lacului, ethane pipeline Ø 5 9/16" Turburea - Arpechim, Dragășesti commune, village Buciumeni, Vâlcea county;	763	59	704	704	54	100	300	250	0	0	0	0	0	0	0	0	0					Procurement procedure for execution in progress.	
																							Design contract in progress	

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6	River bank defence works at the undercrossing of the crude pipeline $\varnothing 10\frac{1}{2}$ " L1 Barbatesti - Orlesti, ethane pipeline $\varnothing 5\frac{1}{2}$ " Tulburea - Arpechim, optical fiber $\varnothing 5\frac{1}{2}$ " Barbatesti-Ploiești, Pescaneana river, Amaraști commune, Valcea county.	1,000		35	35	0	0	0	15	20	365	365	600	600	Procurement procedure progress for appraisals
7	Solution study and execution of land consolidation works in the safety area of the crude pipeline Line 1 Barbatesti- Ploiești, in the area of Pescaneana river right bank, Livezi, locality, Valcea county	965		65	65	0	0	15	50	50	500	500	400	400	Procurement procedure progress for SS and design.
8	Technical appraisal of Plopou overcrossing of the Trotus river, 182 m in length;	775		75	75	0	0	25	50	50	500	500	200	200	Procurement procedure progress for appraisals
9	Works for consolidation of piles, fix and mobile bearers and pre-stressing cross-ties at Arges river crossing, Cateasca area, Arges county.	891		100	100	0	0	50	50	50	791	791	0	0	Procurement procedure progress for appraisals
10	Safe disposal works related to aerial crossing of Preahova river by Cartolani - Ploiești 12 $\frac{1}{2}$ " and 14 $\frac{1}{2}$ " pipelines, Stejaru village, Brazi commune, Preahova county;	363		13	200	200	0	40	60	100	150	150	0	0	Procurement procedure progress for design and execution
<b>b) NEW WORKS</b>		<b>5,580</b>	<b>0</b>	<b>0</b>	<b>280</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>280</b>	<b>0.00</b>	<b>600</b>	<b>600</b>	<b>0</b>	<b>0.00</b>	<b>4,700</b>
11	Solution study and safe disposal works related to the crude oil pipeline $\varnothing 10\frac{1}{2}$ " Line 1 Barbatesti - Orlesti in Verdea Area, Amaraști commune, Verdea Village, Valcea county	1,160		60	60	0	0	0	0	60	100	100	1,000	1,000	SS 2016
12	Solution study and works for the consolidation of land/safe disposal of the crude oil pipeline $\varnothing 10\frac{1}{2}$ " L1 Barbatesti-Orlesti in Orlesti locality, Orlesti commune, Valcea county.	1,260		60	60	0	0	0	0	60	100	100	1,100	1,100	SS 2016
13	Safe disposal of the pipeline $\varnothing 6\frac{5}{8}$ " Ufati - Ploiești and $\varnothing 4$ " optical fiber support at Teleajen River undercrossing	850		50	50	0	0	0	50	100	100	700	700	Design 2016	
14	Safe disposal works related to the Cartolani - Ploiești $\varnothing 12\frac{1}{2}$ " and $\varnothing 14\frac{1}{2}$ " pipelines undercrossing, Ciorogârăa river, Dambovita county	1,260		60	60	0	0	0	60	200	200	1,000	1,000	Design 2016	
15	Safe disposal works of the crude oil pipeline $\varnothing 10\frac{1}{2}$ " Line 2 Radinesti - Orlesti, at Pescaneana and Arincoasa rivers crossings	1,050		50	50	0	0	0	50	100	100	900	900	Design 2016	
<b>Modernization and monitoring of the cathodic protection system at central and sectoral level, related to Ticleni-Ploiești, Line 1 and Line 2 crude oil transport pipelines</b>		<b>11,535</b>	<b>2,635</b>	<b>8,900</b>	<b>8,900</b>	<b>1,900</b>	<b>3,000</b>	<b>3,000</b>	<b>1,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	Execution contract in progress
3	Modernization and monitoring of the cathodic protection system related to the domestic and import National Transport System – design	814		224	590	590	290	300	0	0	0	0	0	0	Design contract in progress

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4	Modernization and monitoring of the cathodic protection system related to the domestic National Transport System –	9,675		100	100		0	0	0	0	100	1,575	1,575	8,000	8,000
5	Modernization and monitoring of the cathodic protection system related to the import National Transport System –	9,675		0	0		0	0	0	0	100	100	1,575	1,575	
6	Pilot system for detection and location of product leaks from the crude oil major pipelines system Vrdtele - Cartojani – Ploiești	4,265	150	5	5	0	0	0	0	5	1,600	1,600	2,510	2,510	
7	Consultancy and Technical Assistance	150		50	50		0	0	0	0	50	50	50	50	
8	Tanks	12,411	143	0	1,150	1,150	0	100	20	530	500	0.00	5,008	5,008	0
1	Modernization of Balcoi tank farm	684	57	100	100		0	20	30	50	527	527	0	0	Design and execution contract in progress
2	PECICA R1 Tank	745	40	200	200		0	0	100	100	505	505	0	0	Execution contract in progress. Site delivery conditioned by the tank cleaning
3	Barbatesti R6 Tank	1,222	46	300	300		0	0	150	150	876	876	0	0	Execution contract in progress. Site delivery conditioned by the tank cleaning
4	Polana Lacului new tank	1,500		150	150		50	0	50	50	800	800	550	550	Design contract in progress
5	Rehabilitation of R8 Tank Cartojani	1,610		150	150		50	0	50	50	800	800	660	660	Design contract in progress
6	Rehabilitation of the 500 cubic meters buffer tank in Baraganu station	500		100	100		0	0	50	50	800	800	660	660	Design/execution NEW TANK
7	Calareti Fire Prevention and Extinguishing (Rrom, PSI) Installation Tank	1,150		50	50		0	0	50	50	400	400	0	0	Design/execution NEW TANK
8	Rehabilitation of R3 crude oil tank, Calareti station	5,000		100	100		0	0	50	50	1,000	1,000	3,900	3,900	Design 2016
9	<b>Energy Works:</b>	<b>7,065</b>	<b>117</b>	<b>0</b>	<b>1,198</b>	<b>1,198</b>	<b>0</b>	<b>108</b>	<b>250</b>	<b>450</b>	<b>390</b>	<b>0.00</b>	<b>5,750</b>	<b>5,750</b>	<b>0</b>
1	Modernization of exterior illumination equipment by making use of the LED technology sources - East Division and South Division	2,325		375	375		25	50	150	150	1,950	1,950	0	0	Design contract in progress
2	Modernization of exterior illumination equipment by making use of the LED technology sources - West Division and Import Division	2,325		75	75		25	50	0	0	2,250	2,250	0	0	Design contract in progress
3	Modernization of power feeding in Imeci crude oil loading ramp	1,135	12	323	323		23	100	100	100	800	800	0	0	Design contract in progress

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			Estimated up to 31.12.14 for the investment objectives previously contracted					KM 2016 total, or/w: quota	modernization quota	own source	Q I	Q II	Q III	Q IV	KM 2017 Estimate	modernization quota	own sources	KM 2018 Estimate	modernization quota	own source	
			KM 2017 Estimate	modernization quota	own sources	KM 2018 Estimate	modernization quota	own source	KM 2018 Estimate	modernization quota	own source	KM 2018 Estimate	modernization quota	own source	KM 2018 Estimate	modernization quota	own source	KM 2018 Estimate	modernization quota	own source	
4	Modernization of power plant and heating network Marghita	200		50	50	0	0	50	0	0	0	0	0	150	150	0	0	0	0	Design 2016	
5	Modernization of the vibration and temperature monitoring system for the pumping equipment implemented inside the domestic crude oil transport system	750		150	150	0	0	50	100	600	600	0	0	0	0	0	0	0	0	Design 2016	
6	Modernization of the vibration and temperature monitoring system for the pumping equipment implemented inside the automated stations Calarei and Constanta Sud	190		190	190	0	50	100	40	0	0	0	0	0	0	0	0	0	0	Design + execution 20	
7	Joint for electric power feeding Dragos Voda	110	105	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Water feeding fire tank R. 28 Moreni	30		30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	Execution	
10	Telecommunication Works:	980	0	0	980	980	0	0	130	450	400	0.00	0	0	0	0.00	0	0	0	0	
1	Enhancing transport capacity microwaves radiorelays on the section Baragana - Constanta and relocation of Constanta Nord	350		350	350	0	50	150	150	0	0	0	0	0	0	0	0	0	0	Design and execution contract signed per connection tariff; Building permit has been obtained	
2	Modernization of the PABX telephone office in locations Prolesti 1848, Prolesti Garage, Polana Iaculiu, Baragana and Molnesti	300		300	300	0	50	150	100	0	0	0	0	0	0	0	0	0	0		
3	Optimization of network access Ethernet multiplexors	330		330	330	0	30	150	150	0	0	0	0	0	0	0	0	0	0		
11	Modernization of the pumping systems	10,658	461	0	1,290	1,290	0	165	250	250	625	0.00	2,600	2,600	0	0.00	6,307	6,307	0		
1	Modernization of Moreni pumping station	1,105	5	150	150	25	0	0	125	600	600	600	0	0	350	350					
2	Modernization of Oprișenesti pumping system	1,162	5	150	150	25	0	0	125	600	600	600	0	0	407	407					
3	Modernization of Mădălari pumping system	1,105	5	150	150	25	0	0	125	600	600	600	0	0	350	350					
4	Modernization of Ciresu pumping system	578	28	550	550	50	250	250	0	0	0	0	0	0	0	0	0	0	0	Design contract in progress	
5	Modernization of pumping system and restructuring of manifolds in Cerdac station	1,450		50	50	0	0	0	0	100	100	100	0	0	1,300	1,300					
6	Modernization of Potlogi pumping system	1,450		50	50	0	0	0	0	100	100	100	0	0	1,300	1,300					
7	Modernization of Ghelinta pumping system;	1,450		50	50	0	0	0	0	100	100	100	0	0	1,300	1,300					
8	Modernization of Ochiuri pumping system	1,450		50	50	0	0	0	0	100	100	100	0	0	1,300	1,300					
9	Modernization of Maghita pumping system (here included pump house)	450		50	50	0	0	0	50	400	400	400	0	0	1,300	1,300					
10	Modernization of Bucsanii pumping system	459	419	40	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	Design 2016	
12	Ramps modernization	9,001	1	0	600	400	200	150	50	50	350	0.00	3,950	2,750	1,200	0.00	4,450	2,850	1,600	Execution contract in progress	
1	Modernization of Independenta crude oil ramp	3,001	1	200	200	200	100	0	0	100	1,200	1,200	1,200	0	1,600	1,600	1,600	1,600	1,600	Design contract in progress	
2	Modernization of Ciresu ramp	2,000		150	150	0	0	0	0	150	850	850	850	0	1,000	1,000	1,000	1,000	1,000	Design 2016	
3	Modernization of Berca ramp	1,500		100	100	0	0	0	0	100	900	900	900	0	500	500	500	500	500	Design 2016	
4	Modernization of Imecii ramp	2,500		150	150	50	50	50	50	50	1,000	1,000	1,000	0	1,350	1,350	1,350	1,350	1,350	Design 2016	
13	Buildings, stations' fencing	271	1	0	270	0	270	0	0	220	50	0.00	0	0	0	0.00	0	0	0	0	Design 2016

Nr. crt.	Name of the Objective	Value of the objective	Program 2016					out of which:					2017					2018				
			Achieved value estimated up to 31.12.14 for the investment objectives previously contracted					KM 2016 total, o/w: modernization quota	own source	Q I	Q II	Q III	Q IV	KM 2017 Estimate	modernization quota	own sources	KM 2018 Estimate	modernization quota	own source	Observations		
			modernization quota	own sources	Q I	Q II	Q III	Q IV	modernization quota	own sources	Q I	Q II	Q III	Q IV	modernization quota	own sources	Q I	Q II	Q III	Q IV		
1	Modernization of building social group Barbatesti warehouse	10	0	10	10	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	Design + execution	
2	Modernization of warehouse's storage building Barbatesti 2	10	0	10	10	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	Design + execution	
3	Modernization of Fire Prevention and Extinguishing (Rom. PSI) Shed 1 Barbatesti ramp	20	0	20	20	0	0	20	0	20	0	0	0	0	0	0	0	0	0	0	Design + execution	
4	Modernization of Fire Prevention and Extinguishing (Rom. PSI) Shed 2 Barbatesti ramp	20	0	20	20	0	0	20	0	20	0	0	0	0	0	0	0	0	0	0	Design + execution	
5	Polana Lacului fencing	60	0	60	60	0	0	60	0	60	0	0	0	0	0	0	0	0	0	0	Execution	
6	Marghita ramp fencing	150	0	150	150	0	0	100	50	0	0	0	0	0	0	0	0	0	0	0	Execution	
14	<b>Automation and SCADA works:</b>	<b>13,325</b>	<b>0</b>	<b>0</b>	<b>635</b>	<b>0</b>	<b>0</b>	<b>200</b>	<b>435</b>	<b>0.00</b>	<b>3,240</b>	<b>3,240</b>	<b>0</b>	<b>0.00</b>	<b>9,450</b>	<b>9,450</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Design + execution</b>	
1	Modernization of the automation of the tanks in Calareni stations A and B	50	50	50	0	0	0	25	50	0	25	25	0	0	0	0	0	0	0	0	Execution	
2	Automation of rail tanks loading system Suplac	250	250	250	0	0	0	150	100	0	0	0	0	0	0	0	0	0	0	0		
3	Local automation non-modernized stations - design 2016, ex 2017-2018	575	75	75	0	0	0	25	50	250	250	250	250	250	250	250	250	250	250	250		
4	Optimization of SCADA System and Hardware and Software of the Remote Transmission Unit (RTU) 2016-2019	9,200	10	10	0	0	0	0	10	1,490	1,490	0	0	0	0	0	0	0	0	0		
5	Patrimonial Geographic Evidence System, Phase 1	250	250	250	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0		
6	Patrimonial Geographic Evidence System, Phase 2	1,000	0	0	0	0	0	0	0	1,000	1,000	0	0	0	0	0	0	0	0	0		
7	Patrimonial Geographic Evidence System, Phase 3	1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8	Automated system for the segmentation on a pilot route	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	Modernization of the loading/unloading ramps	500	0	0	0	0	0	0	0	500	500	0	0	0	0	0	0	0	0	0		
15	<b>Other works:</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>50</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b></b>	
1	Rehabilitation of the access road to Barbatesti warehouse	100	100	100	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0		
16	<b>Projects, Studies, Technical Appraisals, out of which:</b>	<b>245</b>	<b>0</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140</b>	<b>0.00</b>	<b>90</b>	<b>90</b>	<b>0</b>	<b>0.00</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b></b>	
1	Solution Study regarding the adaptation of a number of measuring skids in view of optimizing the operation thereof	75	75	75	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0		
2	Feasibility study regarding an automated system for the surveillance of the main lines	75	0	0	0	0	0	0	0	75	75	0	0	0	0	0	0	0	0	0		
3	Other Studies	95	65	65	0	0	0	0	0	65	15	15	15	15	15	15	15	15	15	15		
<b>II</b>	<b>OPERATING AREA</b>	<b>45,473</b>	<b>745</b>	<b>0</b>	<b>14,180</b>	<b>0</b>	<b>14,180</b>	<b>1,198</b>	<b>3,445</b>	<b>4,018</b>	<b>5,519</b>	<b>5,40</b>	<b>21,624</b>	<b>0</b>	<b>21,624</b>	<b>4,00</b>	<b>20,535</b>	<b>0</b>	<b>20,535</b>	<b>0</b>	<b></b>	
1	<b>Investment Objectives, out of which:</b>	<b>45,473</b>	<b>745</b>	<b>0</b>	<b>6,930</b>	<b>0</b>	<b>6,930</b>	<b>698</b>	<b>865</b>	<b>2,398</b>	<b>2,969</b>	<b>5,40</b>	<b>18,624</b>	<b>0</b>	<b>18,624</b>	<b>4,00</b>	<b>18,035</b>	<b>0</b>	<b>18,035</b>	<b>0</b>	<b></b>	
1	<b>Pipeline Rehabilitation:</b>	<b>8,484</b>	<b>258</b>	<b>0</b>	<b>617</b>	<b>0</b>	<b>617</b>	<b>50</b>	<b>135</b>	<b>165</b>	<b>267</b>	<b>5,40</b>	<b>3,739</b>	<b>0</b>	<b>3,739</b>	<b>4,00</b>	<b>3,870</b>	<b>0</b>	<b>3,870</b>	<b>0</b>	<b></b>	
1	Replacement crude oil pipeline Ø 10 3/4" Vermesti-Tg. Ocna-Ratoa Onești, in Bogata-Bălia (1km), Larga bridge - Trotus crossing (3 km), L=6,5 km	3,600	180	50	0	0	0	50	0	50	0	0	0	1,000	1,000	1,50	2,370	2,370	2,370	Design contract in progress		

Nr. crt.	Name of the Objective	Value of the objective	Program 2016					out of which:					2017		2018		Observations
			KM 2016 total, o/w:	modernization quota	own source	Q I	Q II	Q III	Q IV	KM 2017	Estimate 2017	modernization quota	own sources	KM 2018	Estimate 2018	modernization quota	own source
1	Crude pipeline Ø 10 3/4" Vernești-Tg Ocna - Raft Oresti, areas pig station Tg Ocna - Monument Zaharia, L=2 km, v. SPV Bogata - Valea Doftana, L= 1 km	31.12.14 for the investment objectives previously contracted	31.12.14 for the investment objectives previously contracted														
2	Crude pipeline Ø 6 5/8" Urlati-Ploiești, Matizol-Ploiești Eastern belt highway area, L= 1.5 km	470	60	20	20	0	0	20	0	1.00	390	390	0	0	0	0	Design contract in progress. Difficulties with the authorization
3	Replacement of a section, 2500 ml in length, of the crude pipeline 6 5/8" Pig station Banesti-Baicoi Centre, between overcrossing of Doftana left bank and Aurel Vlaicu monument in Banesti commune	847	37	37	0	0	0	0	37	1.80	810	810	0	0	0	0	Design contract in progress
4	Ø 6%" rich gas pipeline Ticleni - Ploiești, 300 m section in Diculești area, Valea Doftana	1,445	70	70	0	35	0	35	0.50	375	375	1.50	1,000	1,000	1,000	1,000	Solution Study and design contract in progress
5	Ø 6%" rich gas pipeline Ticleni - Ploiești, 300 m section in Diculești area, Valea Doftana	290	60	60	0	0	30	30	0.30	230	230	0	0	0	0	0	Procurement procedure in progress
6	Ø 6%" rich gas pipeline Ticleni - Ploiești, 300 m section in Faurești area (police station) Valea Doftana and 300 m section in Plesoiu-Salcia area (Dol)	512	18	0.2	250	250	50	100	50	0.10	244	244	0	0	0	0	Design contract in progress

Nr. crt.	Name of the Objective	Value of the objective	Achieved value estimated up to 31.12.14 for the investment objectives previously contracted	Program 2016				out of which:				2017				2018				Observations
				2016 total, o/w:	modernization quota	own source \$	Q I	Q II	Q III	Q IV	KM Estimate 2017	KM Estimate 2017	modernization quota	own sources	KM Estimate 2018	KM Estimate 2018	modernization quota	own source \$		
7	Replacement of a section of the crude oil pipeline Ø 85/8 NEW by route deviation, In Petrobrazi refinery - SKIDS Manifold area and replacement of pig launcher/receiver, approx. 800 linear meters in length.	490			70		70	0	0	35	35	0.80	420		420		0	0	Desin 2016 - Solution Study	
8	Replacement of crude oil transport pipeline Ø 10 3/4" Vermesti-Rato Onești (inventory number 120036) along the route: Vermesti work site – Plopju crossing of Trotus river in a length of about 1.4 km	830			60		60	0	0	30	30	0.40	270		270	1.00	500	500	Design 2016	
2	<b>Water feed</b>	220	0	0	220	0	220	50	100	70	0	0.00	0	0	0	0	0	0	Design and Execution contract in progress..	
1	Barbatesti Water Feed	220			220		220	50	100	70	0	0.00	0	0	0	0	0	0	Design contract in progress	
3	<b>Buildings, station fencing</b>	12,713	464	0	1,505	0	1,505	55	350	600	500	0.00	3,835	0	3,835	0.00	3,500	0	3,500	
1	Modernization of administrative headquarters II building ensemble	10,000	291		300		300	50	100	100	50	3,000	3,000	3,000	3,000	3,000	3,000	3,000	Design + execution	
2	Moinesti garage building	1,154	4		150		150	0	50	50	50	500	500	500	500	500	500	500	Design + execution	
3	Orlești OHS office building	201	1		100		100	0	25	50	25	100	100	100	100	100	100	100	Design + execution	
4	Automobile garage and service repair buildings Orlești	56	1		50		50	0	0	25	25	5	5	5	5	5	0	0	Design + execution	
5	Headquarters Biled-Pecica sector	56	1		50		50	0	0	25	25	5	5	5	5	5	0	0	Design + execution	
6	Offices Building Pecica ramp	201	1		100		100	0	25	50	25	100	100	100	100	100	100	100	Design + execution	
7	Jendermes building Barbatesti warehouse	207	2		200		200	0	25	100	75	5	5	5	5	5	0	0	Design + execution	
8	Service repair building Barbatesti warehouse	116	11		100		100	0	25	50	25	5	5	5	5	5	0	0	Design + execution	
9	Deposit building warehouse Barbatesti 1	12	1		10		10	0	0	5	5	1	1	1	1	1	0	0	Design + execution	
10	Doorman building Barbatesti warehouse	23	1		20		20	0	0	10	10	2	2	2	2	2	0	0	Design + execution	
11	Social building Barbatesti ramp	206	1		200		200	0	50	50	100	5	5	5	5	5	0	0	Design + execution	
12	Building for shunting procedures Barbatesti ramp	55	0		50		50	0	0	25	25	5	5	5	5	5	0	0	Design + execution	
13	Doorman building Barbatesti ramp	22	0		20		20	0	0	10	10	2	2	2	2	2	0	0	Design + execution	
14	Residential I building Barbatesti ramp	252	2		150		150	0	50	50	50	100	100	100	100	100	100	100	Design + execution	
15	Modernization of Constanta Sud II Dispatch House	150	145	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	Design + execution	
4	<b>LDH and tank cars</b>	4,303	0	0	213	0	213	0	13	200	0.00	1,825	0	1,825	0.00	2,265	0	2,265	Finalized. Commissioning is to be performed.	
1	Transformation of LDH 12/250 HP in locomotive LEA 155 KW Barbatesti ramp	2,025			200		200	0	0	200		1,825	1,825	1,825	0	0	0	0	Design + execution	
2	PR tank cars	1,078			13		13	0	0	13	0	0	0	0	0	0	0	0	Design + execution	
3	RR LDH	1,200			0		0	0	0	0	0	0	0	0	0	0	0	0	Finalized. Commissioning is to be performed.	
5	<b>Other works:</b>	19,752	22	0	4,305	0	4,305	543	280	1,550	1,932	0	9,225	0	9,225	0	6,200	0	6,200	
1	Climatization and monitoring of the locations related to the telecommunication system	580			580		580	0	80	250	250	0	0	0	0	0	0	0	Design + execution	
2	Modernization of the IT network	1,025			1,000		1,000	0	0	500	500	25	25	25	25	0	0	0	Design + execution	
3	ERP Modernization	14,150			750		750	0	0	250	500	7,200	7,200	7,200	7,200	6,200	6,200	6,200	Design + execution	
4	Video surveillance systems in 10 CONPET locations	1,060			60		60	0	0	60	0	1,000	1,000	1,000	1,000	0	0	0	Design + execution	

Nr. crt.	Name of the Objective	Value of the objective	Achieved value estimated up to 31.12.14 for the investment objectives previously contracted					Program 2016			out of which:			2017			2018			Observations	
			2016 total, o/w:	modernization quota	own source	Q I	Q II	Q III	Q IV	2017		2018		2019		2020		2021			
										KM	Estimate	KM	Estimate	KM	Estimate	KM	Estimate	KM	Estimate		
5	Modernization of relay station building	509	22	487	487	0	200	200	87	0	0	0	0	0	0	0	0	0	0	Design and execution contract in progress.	
6	Implementation and wireless infrastructure equipment at CONPET Headquarters in Ploesti	108		108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Design and execution contract in progress.	
7	Data center	135		135	135	0	0	0	135	0	0	0	0	0	0	0	0	0	0	SF 2016	
8	Implementation of a Document Management solution	435	0	435	435	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Execution contract in progress.	
9	Information and Business Center CONPET S.A. headquarter <sup>1</sup>	1,750		750	750	0	0	350	400	1,000	1,000	0	0	0	0	0	0	0	0		
6	Intangible investments			70	70	0	0	0	70	0	0	0	0	0	0	0	0	0	0		
	Independent Facilities and Equipment			7,250	500	2,580	1,620	2,550	3,000	3,000	2,500	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200		

Director of the Economic Direction - Econ. Sanda Toader- S.s. Illegible  
 Director of the Operations Direction - Ph.D. Eng. Gh. Ionescu - S.s. Illegible  
 Director of the Critical Infrastructures protection Direction - Econ. Daniel Niculae - S.s. Illegible  
 Manager of the Production Department - Eng. Liviu Zoican - S.s. Illegible  
 Deputy Manager of the Production Department - Eng. V. Antonescu - S.s. Illegible  
 Manager of the Maintenance Department - Ph.D. Eng. Ion Beldiman - S.s. Illegible  
 Manager of the IT-Telecommunications-SCADA Department - Eng. Dan Buzatu  
 Manager of the Procurement and Investments Management Department - Eng. R. Albu - S.s. Illegible

Recommended for analysis and endorsement in the BoA meeting dated .....  
 and for approval of the OGMS on .....

**CONPET S.A. PLOIESTI**  
**DEPARTMENT FOR PROCUREMENT AND INVESTMENT MANAGEMENT**  
**INVESTMENTS MANAGEMENT BUREAU**

**2016 Independent Facilities and Equipment**  
**(other tangible assets procurement)**

Thousand RON				
Nr. crt.	Name of the the machinery	Quantity	2016 Program	Observation
A	Mijloace auto si de interventie	11	2,669	
1	Buldoescavator	5	1,913	Cartojani, Sectors Urlati-Berca-Ciresu, Barbatesti, Calareti, Constanta
2	Land utility vehicles	6	756	S. Transp.
B	CAMPUS MODULES	7	230	
1	Campus Modules	7	230	Cartojani (Potlogi), Calacea, Satchinez, Pecica, Barbatesti, Petreu, Dofteana
C	TECHNOLOGICAL INSTALLATION AND EQUIPMEHNT	35	1,880	
1	Explosimeter	3	10	Constanta, Barbatesti, Moreni
2	Portable machinery for the rectification of valve surfaces	1	190	Mechanical Service
3	Stand for Testing Valves Pressure	1	700	Mechanical Service
4	Hydraulic man actuated Pump	4	25	Mechanical Service
5	Portable cranes	5	140	Mechanical Service
6	Lift &Drag devices - cable control 5 t	3	35	Mechanical Service
7	Set chei hidraulice	4	450	Mechanical Service
8	Transformer 1000 KVA	1	50	Poiana Lacului
9	Transformer 400 KVA	1	25	Lucacesti
10	ACV Pump	1	40	Cartojani
11	Roller blade device 6-8 "	1	4	Poiana Lacului
12	Assembly Honda-converter	3	15	Calareti, C-ta, Baraganu
13	Electric generator with voltage stabiliser	2	10	Baicoi+Urlati Maintenance Team
14	Motopompa evacuare apa	2	18	Sectors Moreni-Siliste/Orlesti-Ghercesti
15	Professional Micro-ohmmeter	1	68	Energy Service
16	Tester for measurement of soil resistivity	1	20	Energy Service
17	Device for burning electrical wiring	1	80	Energy Service
D	COMPUTER TECHNOLOGY	151	377	
1	Desktop	50	150	IT Service
2	Laptop	25	113	
3	Monochrome copiers A4	70	98	IT Service
4	Color copiers A4	6	16	

Nr. crt.	Name of the the machinery	Quantity	2016 Program	Observation
<b>E</b>	<b>LABORATORY TECHNOLOGY</b>	<b>75</b>	<b>712</b>	
1	Densimeter DMA 4100M	1	52	Quality Control Bureau
2	portable digital densimeter	16	136	Quality Control Bureau
3	Device for the measurement of the tank temperature	16	112	Quality Control Bureau
4	Heated centrifuge	10	240	Quality Control Bureau
5	Thermostated bath	11	77	Quality Control Bureau
6	Heating Mantle	6	8	Quality Control Bureau
7	Distillation Unit	14	6	Quality Control Bureau
8	Water distillation device	1	81	Quality Control Bureau
<b>F</b>	<b>OTHER EQUIPPMENT</b>	<b>39</b>	<b>1,345</b>	
1	Color copier A4	4	45	Administrative Service
2	Monochrome copiers A4	12	75	Administrative Service
3	Industrial computer for prover operation	3	50	Automation Service
4	Night vision devices	17	680	Guard Service
5	Pipeline surveillance devices		450	Guard Service
6	Cleaning devices Central Dispatch	2	30	Administrative Service
7	Hood Fire Extinguishing Installation	1	15	Administrative Service
	Other equipment		37	
	<b>TOTAL GENERAL</b>	<b>318</b>	<b>7,250</b>	

Director of the Economic Direction - Econ. Sanda Toader- S.s. Illegible

Director of the Operations Direction - Ph.D. Eng. Gh. Ionescu - S.s. Illegible

Director of the Critical infrastructures protection Direction - Econ. Daniel Niculae - S.s. Illegible

Manager of the Production Department - Eng. Liviu Zoican - S.s. Illegible

Deputy Manager of the Production Department - -Eng. V. Antonescu - S.s. Illegible

Manager of the Maintenance Department - Ph.D. Eng. Ion Beldiman - S.s. Illegible

Manager of the IT-Telecommunications-SCADA Department - Eng. Dan Buzatu

Manager of the Procurement and Investments Management Department-Eng. R. Albu - S.s. Illegible